



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)


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The Eastern Iowa DX Bulletin

Number 235, August 16, 2024

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Ohio-Penn DX Bulletin (OPDX)

Edited by Tedd Mirgliotta, KB8NW. Although OPDX is no longer published as a weekly bulletin, Tedd still sends DX news emails.

We will occasionally publish some of them.

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

Dr. Tony Phillips' SpaceWeather.com, used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



Solar-Terrestrial Data

17 Aug 2024 1718 GMT
 SFI: 225 SN: 171
 A-Index: 8
 K-Index: 3
 X-Ray: C3.6
 304A: 170.3 @ SEM
 Ptn Flx: 102
 Elc Flx: 2800
 Aurora: 4/n=1.99
 Mag (Bz): -9.0
 Solar Wind: 448.3
 Geomag Field UNSETTLED
 Sig Noise Lvl S2-S3
 Current Solar Image



<http://www.nonbh.com>
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DX News

3W, VIETNAM. Greg, F4BPO, active as **XV9BPO** since 2019, now also uses the callsign **XV9Q** from Saigon and from the beach. QSL direct via [N4GNR](#).

-[DXNL # 2419 August 14, 2024] (0816-0906)

4W, TIMOR-LESTE. Alan, VK1AO will be QRV again as **4W/VK1AO** from Timor Leste from **August 19th to September 4th**, including activity from POTA sites and from Mt. Ramelau (Tatamailau), the highest peak in Timor-Leste. Usually, he operates mainly FT8 on 40-12 meters. See

<https://www.qrz.com/db/4W/VK1AO> for more information. QSL via LoTW, eQSL and [ClubLog's OQRS](#).
-[425DXN # 1736 August 10, 2024] (0816-0906)

5H, TANZANIA. Uli, DO4UB will be QRV as **5H2MUA** from Arusha **beginning August 20th**. QSL via [DO2HQS](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0906)

5Z, KENYA. Mark, VK3XB, is currently back on the air as **5Z4XB** from Nairobi. He is in Australia during July, but then returns to Kenya **in August**. QSL via [VK3WIA](#).

-[DXNL # 2412 June 26, 2024] (0726-0830)

CN, MOROCCO. Taking part in the annual Youth Day's celebrations, members of the Association Royale des Radioamateurs du Maroc (ARRAM) will be using the **special prefix 5E61** on **August 17th-25th**, while the national society will be running the special event station **5E61FJ**. Celebrated on the birthday of the reigning monarch (August 21st), Youth Day (Fete de la Jeunesse) is a public holiday in honor of the contribution of the youth to the Kingdom. QSL via [CN8WW](#).

-[425DXN # 1736 August 10, 2024] (0816-0830)

D4, CAPE VERDE. Alex, SQ9UM will be active holiday style as **D4UM** from Sal Island (AF-086), Cape Verde on **August 16th-26th**. He will operate CW, SSB, FT8 and FT4 on 80-6 meters. QSOs will be uploaded to ClubLog. QSL via [SQ9UM](#).

-[425DXN # 1737 August 17, 2024] (0816-0830)

DL, GERMANY. A group of operators will be QRV as **DK5T/LH** from the Lightship Laesoe Rende during the International Lighthouse and Lightship Weekend (**August 17th-18th**). Activity will be on 160 to 6 meters using CW, SSB, RTTY, FT8, and FT4. QSL via [DK5ON](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0823)

DL, GERMANY. Members of DARC's Ortsverband Greifswald (DLØHGW) will be active as **DL25ØCDF** from **August 1st to September 30th**. The special callsign marks the 250th anniversary since the birth of the painter Caspar David Friedrich, an icon of the German Romantic movement. A certificate will be available, see <https://dl0hgw.darc.de/dl250cdf.htm> for information. All QSOs will be confirmed automatically via the bureau, eQSL and LoTW.

-[425DXN # 1733 July 20, 2024] (0726-0927)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of August 16, 2024:

1. P5	DPRK (North Korea)	11. ZS8	Prince Edward & Marion Islands
2. BS7H	Scarborough Reef	12. KH4	Midway Island
3. CEØX	San Felix Islands	13. VKØM	Macquarie Island
4. BV9P	Pratas Island	14. PYØS	Saint Peter And Paul Rocks
5. KH7K	Kure Island	15. KP5	Desecheo Island
6. KH3	Johnston Island	16. VPØS	South Sandwich Islands
7. 3Y/P	Peter 1 Island	17. KH5	Palmyra & Jarvis Islands
8. FT5/X	Kerguelen Island	18. ZL9	New Zealand Subantarctic Islands
9. YVØ	Aves Island	19. FK/C	Chesterfield Islands
10. 3Y/B	Bouvet Island	20. VKØH	Heard Island

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF August 16, 2024] (0816-0906)

ES, ESTONIA. Celebrating the centenary of amateur radio in Estonia, special event station **ES1924TE** will be active on **August 5th-18th**. Bureau cards can be requested on the event's website:

<https://es1924te.erau.ee>, or QSL via LoTW, eQSL and QRZ Logbook;

-[425DXN # 1736 August 10, 2024] (0809-0823)

EX, KYRGYZSTAN. Darek, SP9DLM and his son Gregor, SN9GM will be active as **EX/SP9DLM** and **EX/SN9GM** from Kyrgyzstan on **August 13th-19th**. Gregor is the youngest radio amateur in Poland; he passed the exam last year, when he was 10 years old. QSL via home calls [SP9DLM](#) & [SN9GM](#) (bureau preferred), LoTW, eQSL.

-[425DXN # 1734 July 27, 2024] (0726-0823)

F, FRANCE. The radio club F4KIR from Saint Malo uses the callsigns **TM8ØCAL** (during August) and **TM8ØLCA** (during September) to commemorate their city's liberation 80 years ago. QSL via [F5BNJ](#).
-[DXNL # 2419 August 14, 2024] (0816-0927)

F, FRANCE. For the ninth year in a row, a German team (DJ5KX, DJ8EI, DK5OPA, DL1DCT, DL4MME, DL5KA and DL8KR) will be active as **TMØBSM** from the lighthouse at Berck-sur-Mer on **August 15th-18th**. They will be QRV on the HF bands and the QO-100 satellite. QSL via LoTW (preferred), or direct to [DK5OPA](#).
-[425DXN # 1736 August 10, 2024] (0809-0823)

F, FRANCE. Supported by a Dutch amateur radio team, special event station **TM8ØLM** will be active on **August 15th-18th** to celebrate the 80th anniversary of the liberation of the village of Le Muy during WWII (August 16, 1944). QSL via LoTW and [ClubLog's OQRS](#).
-[425DXN # 1736 August 10, 2024] (0809-0823)

F, FRANCE. Vitaly, F4WBU will be active as **TM2Ø24PG** on **August 12, 19 and 26**, and again from **August 28th to September 8th** during the 17th Summer Paralympic Games. All QSOs will be confirmed via the bureau.
-[425DXN # 1736 August 10, 2024] (0809-0913)

F, FRANCE. Special callsign **TM3TDFF**, operated by Michel (F8GGZ), will be active around the August 3rd Tour de France Femmes from **August 12th to 18th**.
-[DXNL # 2418 August 7, 2024] (0809-0823)

F, FRANCE. The Radio Club du Val d'Issole (F8KGH) will be active as **TM8ØDP** from **August 9th to 27th** to commemorate the 80th anniversary of the landing operation ("Debarquement de Provence") of the Allied invasion of Provence during World War II (August 15, 1944). They will operate SSB, CW and digital modes on 80-6 meters, and via QO-100. QSL via the bureau, eQSL, QRZ Logbook.
-[425DXN # 1735 August 3, 2024] (0809-0830)

F, FRANCE. Michel, F8GGZ will be active as **TM24JOL** from **July 26th to August 11th**, and as **TM24JPO** from **August 28th to September 8th** for the Paris 2024 Olympic and Paralympic Games, respectively. QSL via [F8GGZ](#).

Several other callsigns are expected to be active during the Summer Olympics, including

TM1ØØOG operated by Team TM3P; QSL direct to [F5PYI](#)

TM17JO operated by Jean-Claude, F1HOM from Re Island (EU-032);
QSL via the bureau

TM2Ø24JO operated by members of Radio Club d'Esquerdes. QSL via [F5KAI](#).

TM24PRS operated by F4DTO and F4GFE; QSL via [F4DTO](#)

TM36JO operated by members of the Association des radioamateurs de l'Indre; QSL via the bureau, or direct to [F5OHM](#)

TM37JO operated by F4ENK, F4ERS, F5CWU, F5SQM and F6FYA; QSL via F5CWU's OQRS (<https://www.f5cwu.net/oqrs/>)

TM4ØJO operated by members of the RadioPole Associatif REF-40 (F4KLM); QSL via [F6DZU](#) and LoTW

TM73JO operated by F6HQP; QSL via the bureau, LoTW, QRZ Logbook

TM8JOP operated by Yves, F8LLA, one of the 45,000 volunteers who will support the Olympics

-[425DXN # 1733 July 20, 2024] (0726-0906)

F, FRANCE. In addition to earlier lists, the following special event stations are also active around the Olympic Games:

* **TM5FO**, **August 26th**, Dept. 80 (Somme)

* **TM51JP**, **August 28th-Sept. 8th**, Dept. 51 (Marne)

* **TM4ØIPC**, **August 28th-Sept. 8th**, Dept. 40 (Landes)

* **TM24JPO**, **August 28th-Sept. 8th**, Dept. 71 (Saone et Loire)

-[DXNL # 2417 July 31, 2024] (0802-0906)

FO, FRENCH POLYNESIA. Yann, F1SMB will be active again as **FO/F1SMB** from French Polynesia from **August 15th to September 15th**. His main QTH will be Tahiti (OC-046), with a side trip to Fakarava (OC-066). Usually, he operates FT8 and SSB 40-10 meters. QSL via [F1SMB](#), LoTW, eQSL.

-[425DXN # 1736 August 10, 2024] (0809-0920)

FP, ST. PIERRE & MIQUELON. Team **TO8FP** (VA2AN, VA2MM, VA2XZA, VE2DDZ, VE2GCE and VE2YNI) will be active from Miquelon (NA-032) on **August 10th-22nd**. They will operate CW, SSB and digital modes on 80-6 meters and via satellite. QSL via [ClubLog's OQRS](#), or via [DJ4MX](#).

-[425DXN # 1733 July 20, 2024] (0809-0823)

GM, SCOTLAND. Members of the Unicom Radio Club are QRV with special event call sign **GB1URC** until **September 4th** to mark the official introduction of the club to the amateur radio community. Activity is on the HF bands. QSL direct to [GB1URC](#).

-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0906)

HKØ, SAN ANDRES & PROVIDENCIA. Frank, **HKØRMR** has been active on 15 meters using FT8 around 0300z. QSL via LoTW.

-[ARRL DX Bulletin # 28 August 1, 2024] (0802-0823)

HL, SOUTH KOREA. Oh, 6K2CFI and Ji, DS1TUW will be active as **D93H** from Taehuksan Island (AS-093) on **August 15th to 17th**. They will operate SSB, CW and FT8 on the HF bands and 6 meters (WWL PM24rq). ClubLog's Live Stream will be enabled: <https://clublog.org/livestream/D93H>. QSL via [ClubLog's OQRS](#), or direct to [DS1TUW](#).

-[425DXN # 1735 August 3, 2024] (0809-0823)

I, ITALY. Celebrating Pesaro Capitale Italiana della Cultura (Italian Capital of Culture) 2024, members of ARI Pesaro and ARI Fano will be active as **I16CIC** from **June 1st to August 29th**. QSL via [I16CIC](#).

-[425DXN # 1725 May 25, 2024] (0531-0830)

K, UNITED STATES. Howie, **K1VSJ**, has been operating from Martha's Vineyard (NA-046) since July 27th and will continue to do so until **September 4th**. QSL via [K1VSJ](#).

-[DXNL # 2418 August 7, 2024] (0809-0906)

KH5, PALMYRA & JARVIS IS. A group of operators are QRV as **N5J** from Jarvis Island, IOTA OC-081, until **August 19th**. Activity is on 160 to 6 meters using CW, SSB, and FT8. QSL via [ClubLog's OQRS](#).

-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0823)

KH8, AMERICAN SAMOA. Rikk, WE9G is QRV as **WE9G/KH8** from Tutuila (OC-045) until **August 29th**. Activity is on 40 to 10 meters using mostly FT8. QSL to [WE9G](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0830)

LU, ARGENTINA. Carlos, LU8DCH will be active again as **LU8DCH/D** from Martin Garcia Island (SA-055) on **August 15th-18th**. QSL via LoTW, eQSL, QRZ Logbook, or direct to [LU8DCH](#).

-[425DXN # 1737 August 17, 2024] (0816-0823)

LY, LITHUANIA. Special callsigns **LY35BW** and **LY35A** will be active until **August 31st** to celebrate the 35th anniversary of the Baltic Way. On August 23, 1989, hundreds of thousands of people formed a human chain spanning across Estonia, Latvia and Lithuania, demanding the reestablishment of the independence of the Baltic States. A special award will be available, see <https://www.qrz.com/db/LY35BW> for the details.

-[425DXN # 1735 August 3, 2024] (0802-0830)

OE, AUSTRIA. Celebrating the 60th anniversary of the Rhein Ruhr DX Association (<https://rrdxa.org/>), Tom, OE4EIE is active as **OE4RRDXA** from **July 1st to September 30th**. QSOs will be uploaded to LoTW and ClubLog; paper QSL cards will not be available.

-[425DXN # 1731 July 6, 2024] (0705-0927)

OE, AUSTRIA. Special callsign **OE7ØVIE** marks the 70th anniversary of Vienna International Airport (IATA code VIE) from **June 21st to September 30th**. QSL via [ClubLog's OQRS](#) (preferred), LoTW in

due course, or via [OE6VIE](#).

-[425DXN # 1729 June 22, 2024] (0621-0927)

OHØ, ALAND IS. OH2JIU, OH2MZB, OH5BM, OH5CW, OH5CY and OH5CZ will be active as **OGØC** from the Aland Islands (EU-002) on **August 11th-18th**. Operating from grid square KO09, they will be QRV from 160m to 70cm CW, SSB, FT8/FT4 and RTTY with several stations. QSL via [OH5CW](#) and LoTW.

-[425DXN # 1736 August 10, 2024] (0809-0823)

OK, CZECH REPUBLIC. Special event stations **OL24YOTA**, **OL1YOTA**, **OL2YOTA** and **OL3YOTA** are QRV **until August 23rd** during the YOTA Summer Camp 2024 hosted by the Czech Radio Club in Prague. QSL via operators' instructions.

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0823)

OM, SLOVAK REPUBLIC. Special station **OM8ØSNP** will be active on **August 1st-31st** commemorating the 80th anniversary of the Slovak National Uprising (Slovenske Narodne Povstanie) during World War II. QSL via [ClubLog's OQRS](#), LoTW, or via [OM2FY](#).

-[425DXN # 1734 July 27, 2024] (0726-0830)

OX, GREENLAND. Bo, OZ1DJJ, is currently on Thule (NA-018) and operates as **OX3LX** during his spare time.

-[DXNL # 2419 August 14, 2024] (0816-0906)

OZ, DENMARK. The following special event callsigns celebrate the 60th anniversary of IOTA **until the end of August**:

OZ6ØIOTA (mainland),
5P6ØIOTA/Ø (EU-030),
5P6ØIOTA/1 (EU-171),
5P6ØIOTA/2 (EU-172),
5P6ØIOTA/5 (EU-125),
5P6ØIOTA/8 (EU-088),
5P6ØIOTA/9 (EU-029).

For a schedule of activities see: <https://www.supersaas.dk/schedule/EDR/OZ6ØIOTA>. A number of certificates will be available, see <https://www.qrz.com/db/OZ6ØIOTA> for complete information. QSL via [ClubLog's OQRS](#) (preferred), LoTW, or via [OZ1ACB](#).

-[DXNL # 2413 July 3, 2024] (0705-0830)

S7, SEYCHELLES. Holger, DG3FEH will be active holiday style as **S79/DG3FEH** from Mahe (AF-024), Seychelles on **August 15th-27th**. He will operate SSB mainly on 40, 20, 15 meters and QO-100. QSL via the bureau to [DG3FEH](#).

-[425DXN # 1737 August 17, 2024] (0816-0830)

SV, GREECE. Kostas, SV8GGI and Vassilis, SV1SXZ will be QRV on CW and SSB as **J48KLH** from Koghi Lighthouse on Salamina Island (EU-075) during the International Lighthouse and Lightship Weekend (**August 17th-18th**). QSL via LoTW.

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0823)

TF, ICELAND. Jim, WT8P, signs **TF/WT8P** from **August 17th to 28th**. QSL via [EA5GL](#).

-[DXNL # 2419 August 14, 2024] (0816-0830)

TK, CORSICA. Tony, ON5AG, will be active as **TK/ON5AG** on **August 16th to 29th** from Santa Maria Poggio (EU-014).

-[DXNL # 2419 August 14, 2024] (0816-0830)

TK, CORSICA. Frans, DJØTP is QRV as **TK/DJØTP** **until September 4th**. QSL to [DJØTP](#) and LoTW.

-[ARRL DX Bulletin # 28 August 1, 2024] (0802-0906)

TU, COTE D'IVOIRE. Mustafa, TA2YGT is QRV as **TU/TA2YGT** from Abidjan **until September 16th**. Activity is in his spare time mostly on 20 meters using SSB and FT8, and on Satellite QO-100. QSL

direct to [TA2YGT](#), LoTW.

-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0920)

TZ, MALI. Jeff, K1MMB is QRV as **TZ4AM** from Bamako **until the end of August**. Activity of late has been on 17 meters using CW around 1900z. QSL to [K1MMB](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0830)

UA9, ASIATIC RUSSIA. Mikhail, RA1ALA and Valery, RA9J will be active as **RIØKA** from Ayon Island (AS-038) on **August 13th to 27th**. They will have two transceivers with 1.2 kW and vertical and inverted V antennas for activity on 40-10 meters. QSL via [ClubLog's OQRS](#), or via [RZ3EC](#).

-[425DXN # 1735 August 3, 2024] (0809-0830)

V4, ST. KITTS & NEVIS. Gary, GØFWX will be active again as **V47FWX** from St. Kitts (NA-104) from **July 28th to August 24th**. QSL via [MØURX's OQRS](#).

-[425DXN # 1734 July 27, 2024] (0726-0823)

V7, MARSHALL IS. Lisa, KJ6GHN, a Navy veteran, works on Kwajalein (OC-028) and operates during her spare time, mostly on Sundays and Mondays as **V73ML**. QSL via qrz.com.

-[DXNL # 2419 August 14, 2024] (0816-0906)

VP5, TURKS & CAICOS IS. Randy, K5SL is QRV as **VP5/K5SL** from Providenciales (NA-002) **until August 23rd**. Activity is on 40 to 10 meters using CW and SSB. QSL to [K5SL](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0823)

VU, INDIA. A group of operators are QRV as **AT2BOTA** from Red Sea Crab Beach **until August 18th**. Activity is on 40, 20, 15, and 10 meters. QSL via operators' instructions.

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0823)

XE, MEXICO. Once again special callsign **4A2MAX** will be activated on **August 1st-31st** in remembrance of St. Maximilian Maria Kolbe. Activity will be on various bands SSB, CW and digital modes. Born in 1894, Father Kolbe (SP3RN) was killed on August 14, 1941, at Auschwitz. QSOs will be uploaded to LoTW, eQSL, QRZ Logbook and ClubLog. See <https://www.qrz.com/db/4a2max> for more information. QSL via [EA5GL](#).

-[425DXN # 1736 August 10, 2024] (0809-0830)

YB, INDONESIA. Members of ORARI Lokal Jakarta Timur (YHØAD) will be active as **7E79RI** from Pari Island (OC-177) **until August 19th**. They will operate SSB, CW and FT8 on 160-10 meters with several stations. QSL via LoTW, eQSL and QRZ Logbook.

-[425DXN # 1736 August 10, 2024] (0816-0823)

YB, INDONESIA. Special event stations **8H79RI, 8H79I, 8H79N, 8H79N, 8H79D, 8H79O, 8I79N, 8I79E, 8I79S, 8I79I, and 8I79A** will be QRV from **August 10th to 18th** to celebrate the 79th anniversary of Indonesia's proclamation of independence. Activity is on 80 to 10 meters using CW, SSB, RTTY, and FT8, plus FM on various Satellites. QSL via operators' instructions.

-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0823)

YJ, VANUATU. Luke VK3HJ, Chris VK3QB, Patrick VK2PN and Olgierd VK5XDX will be active as **YJØVK** from Efate (OC-035), Vanuatu on **August 20th-27th**. They will operate CW and FT8 on 40-6 meters. They will try to keep their FB page up to date: <https://www.facebook.com/profile.php?id=61555552575381>. QSOs will be uploaded to ClubLog. QSL via [MØOXO's OQRS](#).

-[425DXN # 1737 August 17, 2024] (0816-0830)

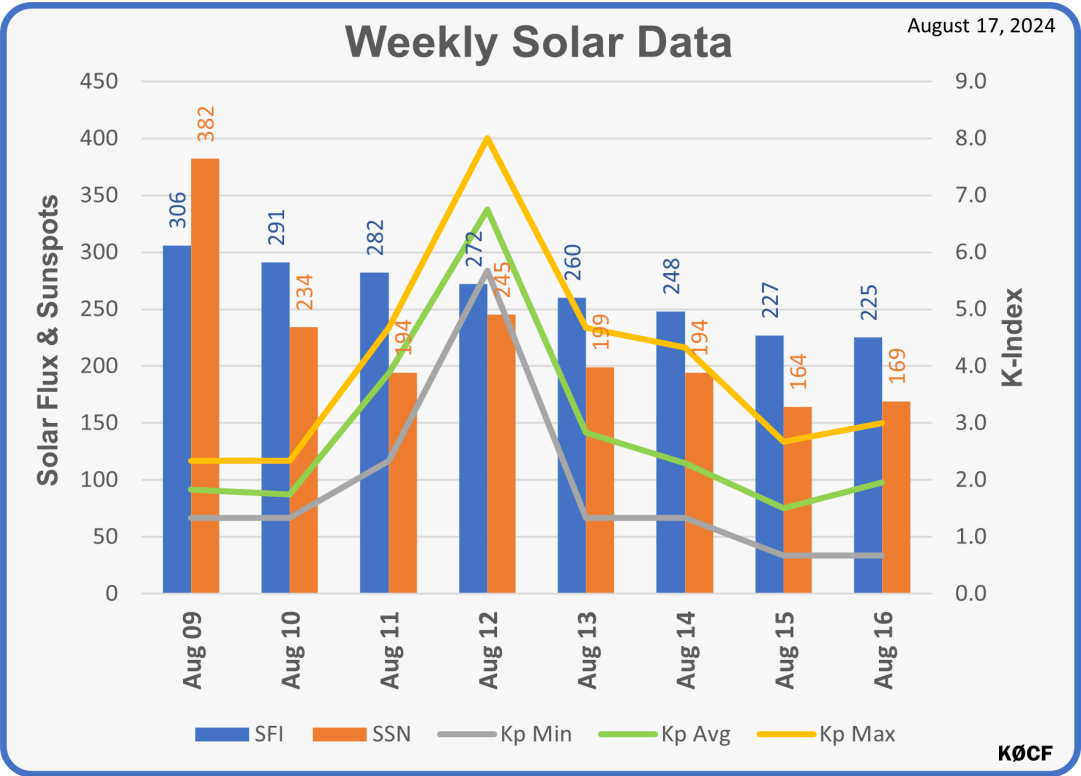
YN, NICARAGUA. Rafael, NN3RP, will be active from the cities Granada, Rivas, and Somoto as **YN2RP** from **July 24th to August 20th** on 40-10m (CW, SSB, FT4/8). QSL via [NN3RP](#), LoTW, eQSL, qrz.com.

-[DXNL # 2416 July 24, 2024] (0726-0823)

YO, ROMANIA. Special callsign **YQ6ØYODXC** celebrates the 60th anniversary of the YO DX Club **until August 31st**. A number of certificates will be available, see <https://www.qrz.com/db/YQ6ØYODXC> for the details.

-[425DXN # 1735 August 3, 2024] (0802-0830)

Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

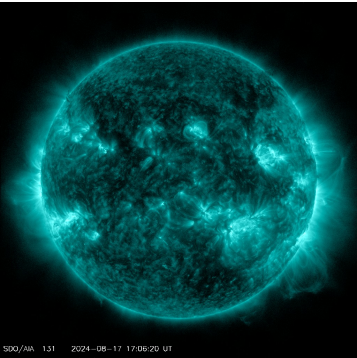
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



Propagation Summary

For the 8 day period from Friday, August 9th through yesterday, August 16th.

The average solar flux was 258, down 20 points from the previous week, with a weekly high of 306 on Friday, August 9th, followed by a low of 225 on August 16th.

The average sunspot count was 200, down by 56 from last week, peaking at 382 on Friday, August 9th followed by a weekly low of 164 on August 15th.

The Planetary K-index weekly average was 4.0 with a maximum of 8.0 on Monday, August 12th, resulting in severe geomagnetic storm conditions. Yesterday's K-index maximum was 3.0 with generally quiet conditions.

Solar flare activity since August 10th has been high with 14 major flares, the largest of which was a major X 1.1 event on Wednesday, August 14th.

Propagation Data

Major solar flares, Saturday, August 10th through 1230 UTC, August 17th.

#	Date	UTC	Mag.
1	Aug 17	1033	M 1.6
2	Aug 16	1324	M 1.3
3	Aug 15	0348	M 1.1
4	Aug 14	1549	M 5.3
5	Aug 14	0640	X 1.1
6	Aug 14	0402	M 4.4
7	Aug 13	2344	M 4.2
8	Aug 12	2257	M 1.2
9	Aug 11	2358	M 1.2
10	Aug 11	2018	M 1.6
11	Aug 11	0528	M 1.6
12	Aug 10	1516	M 1.2
13	Aug 10	0411	M 1.6
14	Aug 10	0237	M 5.3

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Aug 17	70%	20%	225
Aug 18	70%	20%	220
Aug 19	70%	20%	215

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on August 12, 2024).

Date	Flux	Kp
Aug 17	260	2
Aug 18	260	2

Date	Flux	Kp
Aug 21	230	2
Aug 22	210	3

Date	Flux	Kp
Aug 25	220	2
Aug 26	220	2

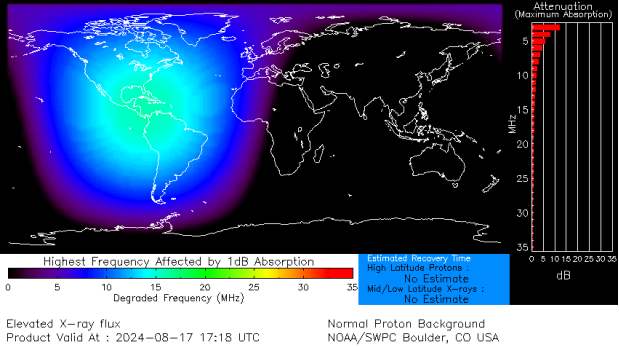
Aug 19	250	2
Aug 20	240	2

Aug 23	200	3
Aug 24	210	2

Aug 27	235	2
Aug 28	235	2

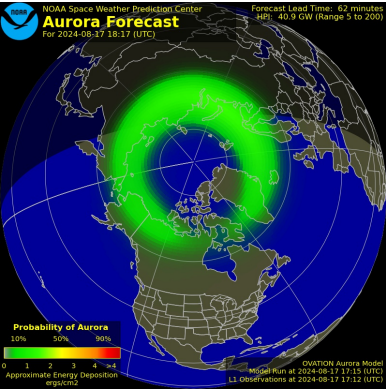
Global D Region Absorption

Conditions in the D-region of the ionosphere have a dramatic effect on HF communications. The D-Region Absorption map combines the effects of solar particles and photons. Yellow to red colors on the map depict increasing signal attenuation, where the bar chart at the right displays attenuation versus frequency. Click the thumbnail below for an animated map of D-Region Absorption:



The Aurora Borealis

The aurora is not only beautiful to see but can have a profound impact on HF and VHF radio propagation. For the HF operator, auroras can result in a complete shut-down of propagation. However, on VHF, auroras present interesting DX possibilities. Beam antennas are very desirable and should be pointed north, towards the aurora. Signals are reflected by “back-scatter” and will be distorted with a rough buzz. SSB is the best voice mode to use, but copy can be difficult. CW will have a rough buzzy sound but be perfectly copyable. Click the thumbnail below for an animated map of aurora versus time:



Highs for Cycle 25

Solar Flux: 336 on August 8, 2024.
Sunspots: 382 on August 10, 2024.

The CME Has Arrived

A CME hurled toward Earth by an [X1-class solar flare](#) on Aug 14th has arrived. It hit our planet's magnetic field on Aug. 17th around 1400 UT. The relatively weak impact could spark [G1-class](#) geomagnetic storms with auroras at high latitudes.
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Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)
NOAA <https://www.swpc.noaa.gov/>
<https://www.spaceweather.com/>
<https://www.solarham.com/>
<https://dx.gsl.net/propagation/>

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!
-[Compiled from information on NOAA.gov and other sources]

Contest Calendar

Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	Rules
ICWC Medium Speed Test	Monday	1300Z	1400Z	Rules
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	Rules
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	Rules
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	Rules

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

Full Calendar

Contest	Start	End	Web Site

North American QSO Party, SSB	Aug 17	1800Z	Aug 18	0600Z	Rules
ARRL Rookie Roundup, RTTY	Aug 18	1800Z	Aug 18	2359Z	Rules
Hawaii QSO Party	Aug 24	0400Z	Aug 26	0400Z	Rules
World Wide Digi DX Contest	Aug 24	1200Z	Aug 25	1200Z	Rules
YO DX HF Contest	Aug 24	1200Z	Aug 25	1200Z	Rules
Kansas QSO Party	Aug 24	1400Z	Aug 25	2000Z	Rules
Ohio QSO Party	Aug 24	1600Z	Aug 25	0400Z	Rules
UK/EI DX Contest, SSB	Aug 31	1200Z	Sep 1	1200Z	Rules
Tennessee QSO Party	Sep 1	1700Z	Sep 2	0300Z	Rules
CWOpS CW Open	Sep 7	0000Z	Sep 7	2359Z	Rules
North American Sprint, CW	Sep 8	0000Z	Sep 8	0400Z	Rules
WAE DX Contest, SSB	Sep 14	0000Z	Sep 15	2359Z	Rules
ARRL September VHF Contest	Sep 14	1800Z	Sep 16	0300Z	Rules
North American Sprint, RTTY	Sep 15	0000Z	Sep 15	0400Z	Rules
Scandinavian Activity Contest, CW	Sep 21	1200Z	Sep 22	1200Z	Rules
Iowa QSO Party	Sep 21	1400Z	Sep 22	0200Z	Rules
Texas QSO Party	Sep 21	1400Z	Sep 22	0200Z	Rules
	Sep 22	1400Z	Sep 22	2000Z	
Wisconsin Parks on the Air	Sep 21	1600Z	Sep 21	2300Z	Rules
New Jersey QSO Party	Sep 21	1600Z	Sep 22	0359Z	Rules
New Hampshire QSO Party	Sep 21	1600Z	Sep 21	2200Z	Rules
	Sep 22	1600Z	Sep 22	2200Z	
Washington State Salmon Run	Sep 21	1600Z	Sep 22	0700Z	Rules
	Sep 22	1600Z	Sep 22	2400Z	
CQ Worldwide DX Contest, RTTY	Sep 28	0000Z	Sep 29	2400Z	Rules
Maine QSO Party	Sep 28	1200Z	Sep 29	1200Z	Rules
Oceania DX Contest, Phone	Oct 5	0600Z	Oct 6	0600Z	Rules
California QSO Party	Oct 5	1600Z	Oct 6	2200Z	Rules
Makrothen RTTY Contest	Oct 12	0000Z	Oct 13	1559Z	Rules
Nevada QSO Party	Oct 12	0300Z	Oct 13	2100Z	Rules
Oceania DX Contest, CW	Oct 12	0600Z	Oct 13	0600Z	Rules
Scandinavian Activity Contest, SSB	Oct 12	1200Z	Oct 13	1200Z	Rules
Arizona QSO Party	Oct 12	1500Z	Oct 13	0500Z	Rules
Pennsylvania QSO Party	Oct 12	1600Z	Oct 13	0400Z	Rules
	Oct 13	1300Z	Oct 13	2200Z	
South Dakota QSO Party	Oct 12	1800Z	Oct 13	1800Z	Rules
10-10 Int. Fall Contest, CW	Oct 19	0001Z	Oct 20	2359Z	Rules
New York QSO Party	Oct 19	1400Z	Oct 20	0200Z	Rules
Stew Perry Topband Challenge	Oct 19	1500Z	Oct 20	1500Z	Rules
Illinois QSO Party	Oct 20	1700Z	Oct 21	0100Z	Rules
ARRL School Club Roundup	Oct 21	1300Z	Oct 25	2359Z	Rules

CQ Worldwide DX Contest, SSB	Oct 26	0000Z	Oct 27	2400Z	Rules
Ukrainian DX Contest	Nov 2	1200Z	Nov 3	1200Z	Rules
ARRL Sweepstakes Contest, CW	Nov 2	2100Z	Nov 4	0300Z	Rules
WAE DX Contest, RTTY	Nov 9	0000Z	Nov 10	2359Z	Rules
10-10 Int. Fall Contest, Digital	Nov 9	0001Z	Nov 10	2359Z	Rules
JIDX Phone Contest	Nov 9	0700Z	Nov 10	1300Z	Rules
OK/OM DX Contest, CW	Nov 9	1200Z	Nov 10	1200Z	Rules
North American SSB Sprint Contest	Nov 10	0000Z	Nov 10	0400Z	Rules

-[Contest data courtesy of the [WA7BNM Contest Calendar](#)]